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(54) Title: ANIMAL MODELS AND METHODS FOR SEPSIS

(57) Abstract: Methods for selecting a candidate drug for treating sepsis are disclosed. The methods involve labeling a sepsis-causing pathogen with a reporter and monitoring the progress of infection by detecting levels of the reporter in animals treated with test compounds or drugs. The comparisons may be made between experimental and control animals, as well as within a single animal or group of animals. Also disclosed is a method for predicting an expected time of death of an experimental animal in a model system of sepsis using data generated in the initial part of the experiment.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 00/07296

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A01K67/027 A61K49/00 C12Q1/02 C12Q1/66 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A01K A61K C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CONTAG C H ET AL: "PHOTONIC DETECTION OF BACTERIAL PATHOGENS IN LIVING HOSTS" MOLECULAR MICROBIOLOGY, GB, BLACKWELL SCIENTIFIC, OXFORD, vol. 18, no. 4, 1995, pages 593-603, XP000578109 ISSN: 0950-382X cited in the application	1-5,7-15
Y	figures 2-5	6
X	CONTAG P R ET AL: "BIOLUMINESCENT INDICATOR IN LIVING MAMMALS" NATURE MEDICINE, US, NATURE PUBLISHING, CO, vol. 4, no. 2, 1998, pages 245-247, XP000914588 ISSN: 1078-8956 cited in the application	1-5,7-15
Y	page 246, column 1, paragraph 2	6

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *G* document member of the same patent family

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97 18841 A (UNIV LELAND STANFORD JUNIOR) 29 May 1997 (1997-05-29) cited in the application	1-5, 7-15
Y	claims 9-12, 14, 16	6
Y	--- ARNOLD L ET AL: "Predictive value of several signs of infection as surrogate markers for mortality in a neutropenic guinea pig model of Pseudomonas aeruginosa sepsis" LABORATORY ANIMAL SCIENCE, vol. 47, no. 6, December 1997 (1997-12), pages 617-623, XP000960981 abstract	6
T	--- FRANCIS K ET AL: "Monitoring bioluminescent Staphylococcus aureus infections in living mice using a novel luxABCDE construct" INFECTION AND IMMUNITY, vol. 68, no. 6, June 2000 (2000-06), pages 3594-3600, XP002153182 the whole document	1-15
A	--- EP 0 864 648 A (SUNTORY LTD) 16 September 1998 (1998-09-16) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9718841 A	29-05-1997	CA 2237983 A	29-05-1997
		US 5650135 A	22-07-1997
		AT 193453 T	15-06-2000
		AU 4285096 A	11-06-1997
		DE 69517344 D	06-07-2000
		EP 0861093 A	02-09-1998
		ES 2147621 T	16-09-2000
EP 0864648 A	16-09-1998	WO 9812313 A	26-03-1998